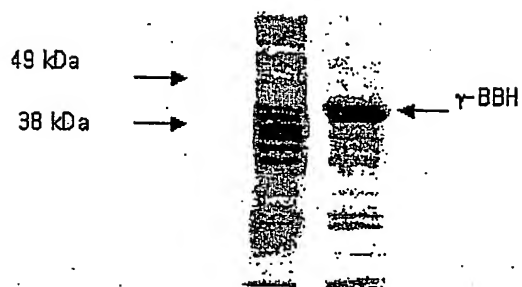


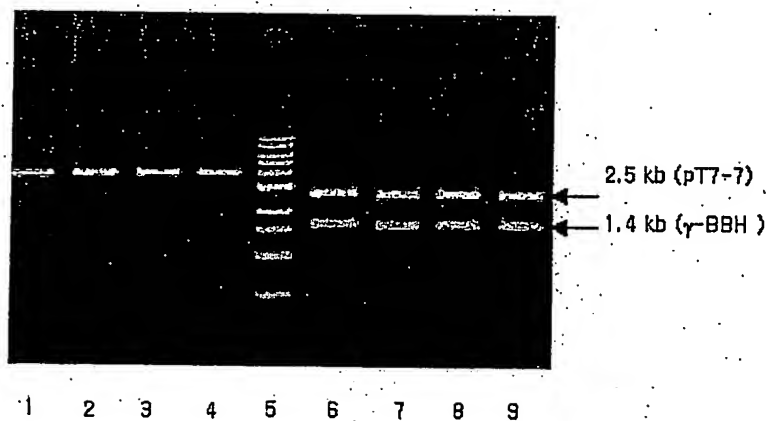
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1



Lane 1 : Protein molecular size marker,
Lane 2 : E.coli BL21 w/o-g -BBH gene,
Lane 3 : E.coli BL21 w/ g -BBH gene and Induced by 1mM IPTG

2



Lane 1~4 : pT7-7 + g-BBH plasmid digested with Nde I
Lane 5 : 1kb DNA ladder
Lane 6~9 : pT7-7 + g-BBH plasmid digested with Nde I and Sal I

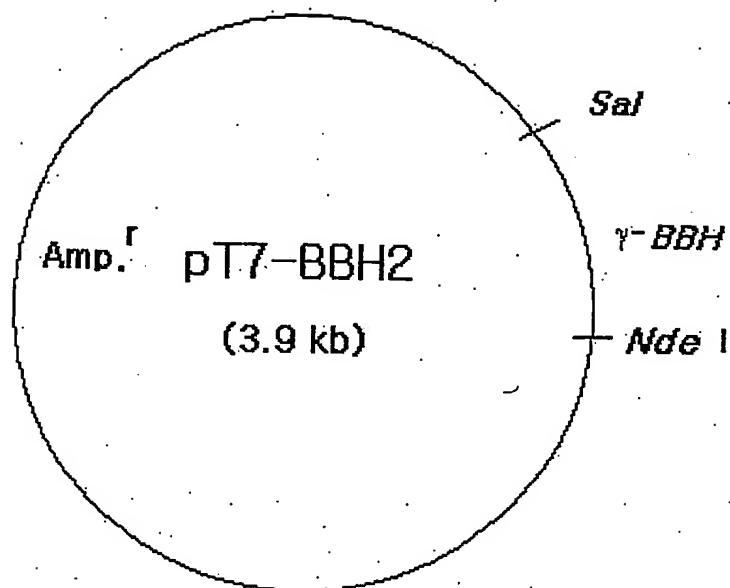
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Human	---MACTI QKAEALDQAH LQI I L W D E E S L Y P A V W L R D N C P C D C V L D S A K A R K	51
rat	---MHCA I L K A E A Y D G A R L Q I F W H G A E S L Y P A V W L R D N C Q C S D C V L H S A K A R K	52
pseudomonas	NA I A D Y R T F P L I S P L A S A A S F A S G S Y T W A D G G V S P F T N L W L R D N C P C G D C V E V T R E Q V	60
N.crassa	---MATAAYQVSVPA PV G Q P D I G V A P D H D K V L A R Y K R R E N E K L E S S L P P G	48
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Human	LLVEALDYN I G I K G L I F D R K - K V Y I T P D E H V S E F Q A D W L K K R C F S K Q A R A K L Q R E L F F P	111
rat	LLLEALDYN I R M D O L T F D Q K - K V Y I T P N G H V S E F E A N W L K K R C F S Q E A R A G L Q G E L F P	111
pseudomonas	FLYADVPED I Q V Q A V T I G D D G R L Y V Q W D D G H A S A Y H P G V L R A H A Y D A Q S L A - E R E A A R P	118
N.crassa	---F P P R L D S D L Y W D G N T L A E T Y D W T V R L T E A I D E I E A A L R H F K S L N K P L G V I T N F T P L P	107
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Human	ECQVWGSSELQPLTLD F E D V L R Y D E H A Y K W L S T L K K V G I V R L T G A S D K P G E Y S K L Q K R W G F	171
rat	ECQVWGSSELQPLT L N F E D V L N D D D H A Y K W L S S L K K V G I V R L T G A A D K R G E I I K L G K R I G F	171
pseudomonas	H K H R W Q G L S L P V D H G A V N Q D D T L E W L L A V R D V G L T Q L H G V P T E P A L I P L A K R I S F	178
N.crassa	RLHHTLRSLSHLHHGFGKYL R - G L P V T S H T R E E N I I V A G V S S H V A P I R G R Q N Q - H	164
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Human	L Y L T F Y G H T W Q V Q D K I D A N N V A Y T T G K L S F H T D V P A L H H P P G - V Q L L H C I K Q T Y T G D D S E	230
rat	L Y L T F Y G H T W Q V Q D K I D A N N V A Y T T G K L S F H T D V P A L H H P P G - V Q L L H C I K Q T Y T G D D S E	230
pseudomonas	I R E S N F G V L F D V R S K A D A C S N A Y T A F N I L P L T D L P T R E L Q P G - L Q F L H C L Y N D A T G G N S T	237
N.crassa	N G H P A D V V L A H I K O L S T T V S D V S K I G A P A V T T E K Q V F H T A D G I V A L F C L G E A A E G G S V	224
* * * * *		
Human	I V D G F N V C Q L K K N N P Q A F Q I L S S - T F V D F T D I G V - D V C D F S Y G S K H K I I E L D D K	283
rat	I V D G F N V C Q L K E K N P A F S I L S S - T F V D F T D I G V - D V C D F S Y G S K H K I I E L D D K	283
pseudomonas	F V D G F A I A E A L R I E A P A A V R L L C E - T P Y E F R N K - D H S D Y R C T A P V I A L D S S	287
N.crassa	L S S S W K V Y N E L A A T R P O L V R T L A E P W A D E F G K G E K F S V R P L L H F Q S T A A A A S P E A K P E	284
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Human	G Q V Y R I F N N A T R D T I F D V P - V E R V Q P F V A A L K E F Y D L M N - S K E S K F T F K N N P G D V I T F	340
rat	G Q V Y R I F N N A T R D T V F D V P - I E R V Q P F V A A L K E F Y D L M N - S K E V K Y T F K N N P G D V I T F	340
pseudomonas	G E V R E I P L A N F L R - A P F Q W D - A Q R M P D Y L A Y R R F I Q N T R - E P R F C F T R A L E A G Q L W C F	343
N.crassa	S E R L I I Q Y A R R T F T G Y W G L P R S A D I P P I T E A Q A E A L D A L H F T A E K Y A V A L D F R Q G D V Q V F	344
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Human	D N W F L L H G R R S V E A G T E I S R H L E G A V A D - W D V V N S - R L R I L	379
rat	D N W F L L H G R R S V E A G T E I S R H L E G A V A D - W D V V N S - R L R I L	379
pseudomonas	D N R P L H A R D A F D P - A S D P H F G G C Y V D - R D E L L S - R I L V L	381
N.crassa	N N L S V F H S R A G F R D E G E K Q P H V R L W L R D P E N A W E T P E A L K E R V E R V Y G G V S P E R E V F P L	404
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Human	R Q R V N G N -	387
rat	R Q R V N G N -	387
pseudomonas	Q R -	383
N.crassa	E P Q I R S A S K G E S Y T Q G G G G Y	425

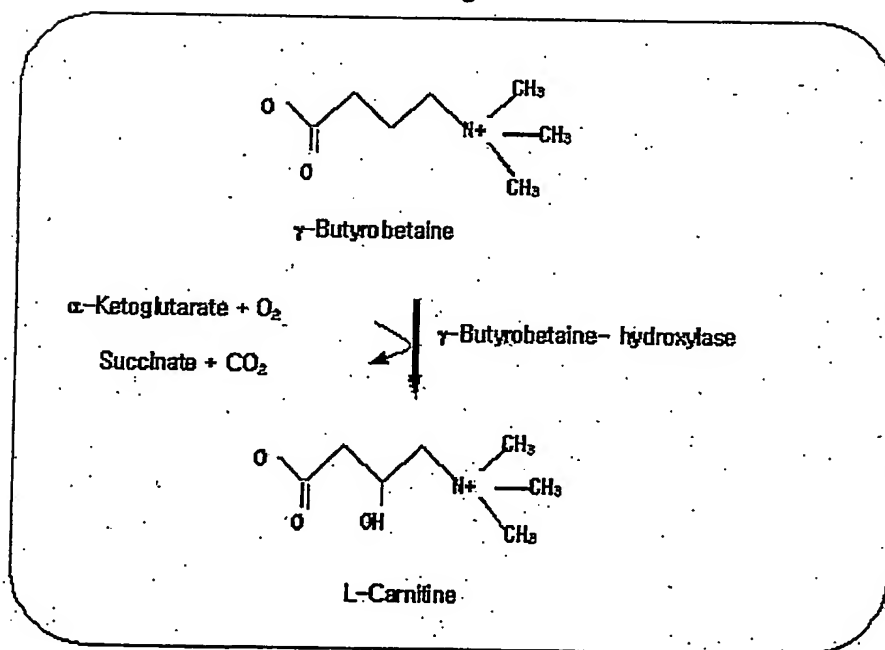
(Sequences were aligned using the European Bioinformatics Institute (EMBL-EBI) sequence analysis program, clustalW.)

3/3

4



5



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